

DETAILED ACTION

1. This communication is in response to the amendment filed on 07/21/2009.

After thorough search and examination of the present application and in light of the prior art made of record, claims 49, 51-60, 67-69, and 76-85 (renumbered as 1-24) are allowed.

Claims 1-48, 50, 61-66, and 70-75 have been cancelled.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview/fax with Attorney, Katharina W. Schuster Registration No. 50,000 on October 21, 2009. A copy of the fax from the Attorney with proposed amendments is also being attached.

Please amend the claims, which were filed on 07/21/2009 with new versions as follows:

1-48. (Cancelled).

49. (Previously Presented) A method for integrating legacy data into a content management system computer, comprising:

analyzing a set of legacy data residing in a legacy data repository on a persistent data source computer connected to said content management system computer over a network;

generating a set of content types to represent the set of legacy data in the content management system based on the analysis of the legacy data, wherein at least one of said set of content types is defined by a user through a graphical user interface of a client computer connected to said content management system computer over said network, wherein one of the content types comprises a policy annotation, and wherein the policy annotation comprises management information for putting content instance objects created from the content type through a workflow associated with the content type;

saving the set of content types in a memory of said content management system computer;

generating a set of content type objects corresponding to the set of content types, wherein a content type object is an instantiation of a content type embodied in the content management system;

generating a set of content instance objects from the content type objects, wherein each content instance object is an instantiation of a content instance and is associated with a content type object or a content type;

associating each of the set of legacy data with at least one of the content instance objects, wherein at least one of the content instance objects is associated with two or more datum of the set of legacy data, each of the datum residing in a distinct data storage device on said network; and

managing the set of legacy data residing in the legacy data repository on said persistent data source computer using the content instance objects generated by the content management system computer, wherein the two or more datum are managed by said content management system over said network as a single entity using the at least one content instance object.

50. (Cancelled).

51. (Previously Presented) The method of claim 49, wherein generating the set of content types comprises specifying attributes associated with the content type.

52. (Previously Presented) The method of claim 49, comprising, for each of the set of content types, analyzing the legacy data to obtain a first set of the legacy data corresponding to the content type.

53. (Previously Presented) The method of claim 52, comprising analyzing the legacy data to generate a set of keys associated with the legacy data.

54. (Previously Presented) The method of claim 53, comprising generating values for the set of keys for each of the content instance objects and associating the values with the content instance object.

55. (Previously Presented) The method of claim 54, wherein the values are acquired by querying the legacy data repository.

56. (Previously Presented) The method of claim 52, wherein each of the set of content type objects is a structured definition of the corresponding content type.

57. (Previously Presented) The method of claim 56, wherein each of the content type objects is an XML document.

58. (Previously Presented) The method of claim 56, wherein each of the set of content types have associated access controls or policies.

59. (Previously Presented) The method of claim 58, comprising managing the set of legacy data using the workflows, access control or policies associated with each of the set of content types.

60. (Previously Presented) The method of claim 58, wherein the content instance objects are stored at a location remote from the legacy data repository.

61-66. (Cancelled).

67. (Previously Presented) The method according to claim 49, further comprising:
setting key values of said content instance object to match or represent key
values of a corresponding piece of legacy data residing in said legacy data repository.

68. (Previously Presented) The method according to claim 49, wherein said
legacy data repository comprises a legacy database.

69. (Previously Presented) The method according to claim 49, further comprising:
enabling said user to perform said policy annotation in defining said at least one
of said set of content types through said graphical user interface of said client computer
connected to said content management system computer over said network.

70-75. (Cancelled).

76. (New) A computer program product comprising one or more computer
readable storage media storing computer instructions translatable by a processor to
perform:

analyzing a set of legacy data residing in a legacy data repository connected to a
content management system computer over a network;

generating a set of content types to represent the set of legacy data in the content management system based on the analysis of the legacy data, wherein at least one of said set of content types is defined by a user through a graphical user interface of a client computer connected to said content management system computer over said network, wherein one of the content types comprises a policy annotation, and wherein the policy annotation comprises management information for putting content instance objects created from the content type through a workflow associated with the content type;

saving the set of content types in a memory of said content management system computer;

generating a set of content type objects corresponding to the set of content types, wherein a content type object is an instantiation of a content type embodied in the content management system;

generating a set of content instance objects from the content type objects, wherein each content instance object is an instantiation of a content instance and is associated with a content type object or a content type;

associating each of the set of legacy data with at least one of the content instance objects, wherein at least one of the content instance objects is associated with two or more datum of the set of legacy data, each of the datum residing in a distinct data storage device on said network; and

managing the set of legacy data residing in the legacy data repository on said persistent data source computer using the content instance objects generated by the

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content management system computer, wherein the two or more datum are managed by said content management system over said network as a single entity using the at least one content instance object.

77. (New) The computer program product of claim 76, wherein the computer instructions are further translatable by the processor to perform:

for each of the set of content types, analyzing the legacy data to obtain a first set of the legacy data corresponding to the content type.

78. (New) The computer program product of claim 77, wherein the computer instructions are further translatable by the processor to perform:

analyzing the legacy data to generate a set of keys associated with the legacy data.

79. (New) The computer program product of claim 78, wherein the computer instructions are further translatable by the processor to perform:

generating values for the set of keys for each of the content instance objects and associating the values with the content instance object.

80. (New) The computer program product of claim 79, wherein the values are acquired by querying the legacy data repository.

81. (New) The computer program product of claim 76, wherein each of the set of content types has associated access controls or policies.

82. (New) The computer program product of claim 81, wherein the computer instructions are further translatable by the processor to perform:

managing the set of legacy data using the workflows, access control or policies associated with each of the set of content types.

83. (New) The computer program product of claim 76, wherein the computer instructions are further translatable by the processor to perform:

setting key values of said content instance object to match or represent key values of a corresponding piece of legacy data residing in said legacy data repository.

84. (New) The computer program product of claim 76, wherein the computer instructions are further translatable by the processor to perform:

enabling said user to perform said policy annotation in defining said at least one of said set of content types through said graphical user interface of said client computer connected to said content management system computer over said network.

85. (New) A system, comprising:

a legacy data repository storing legacy data;

a content management system connected to the legacy data repository over a network; and

one or more client computers connected to the content management system, wherein the content management system embodies a computer program product comprising one or more computer readable storage media storing computer instructions translatable by a processor to perform:

analyzing a set of legacy data residing in the legacy data repository; generating a set of content types to represent the set of legacy data in the content management system based on the analysis of the legacy data, wherein at least one of said set of content types is defined by a user through a graphical user interface of a client computer connected to said content management system computer over said network, wherein one of the content types comprises a policy annotation, and wherein the policy annotation comprises management information for putting content instance objects created from the content type through a workflow associated with the content type;

saving the set of content types in a memory of said content management system computer;

generating a set of content type objects corresponding to the set of content types, wherein a content type object is an instantiation of a content type embodied in the content management system;

generating a set of content instance objects from the content type objects, wherein each content instance object is an instantiation of a content instance and is associated with a content type object or a content type;

associating each of the set of legacy data with at least one of the content instance objects, wherein at least one of the content instance objects is associated with two or more datum of the set of legacy data, each of the datum residing in a distinct data storage device on said network; and

managing the set of legacy data residing in the legacy data repository on said persistent data source computer using the content instance objects generated by the content management system computer, wherein the two or more datum are managed by said content management system over said network as a single entity using the at least one content instance object.

Reason for Allowance

3. The prior art made of record does not teach or fairly suggest the combination of elements, as recited in independent claims 49, 76 and 85.

More specifically, the prior art of records does not specifically suggest the combination of "generating a set of content types to represent the set of legacy data in the content management system based on the analysis of the legacy data, wherein at least one of said set of content types is defined by a user through a graphical user interface of a client computer connected to said content management system computer over said network, wherein one of the content types comprises a policy annotation, and

wherein the policy annotation comprises management information for putting content instance objects created from the content type through a workflow associated with the content type; associating each of the set of legacy data with at least one of the content instance objects, wherein at least one of the content instance objects is associated with two or more datum of the set of legacy data, each of the datum residing in a distinct data storage device on said network; and managing the set of legacy data residing in the legacy data repository on said persistent data source computer using the content instance objects generated by the content management system computer, wherein the two or more datum are managed by said content management system over said network as a single entity using the at least one content instance object" in combination with all the other limitations in the independent claim 49, 76 and 85.

These features together with other limitations of the independent claim are novel and non-obvious over the prior art of record. The dependent claims 51-60, 67-69, and 77-84 being definite, enabled by the specification, and further limiting to the independent claims, are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to USMAAN SAEED whose telephone number is (571)272-4046. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571)272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Usmaan Saeed/
Examiner, Art Unit 2166
October 23, 2009

Usmaan Saeed
Patent Examiner
Art Unit: 2166

/Hosain T Alam/
Supervisory Patent Examiner, Art Unit 2166